

CRF Errors Corrected by the STIC System: Branch

Serial Number: 09/004,395B

CRF Processing Date: 6/19/99

Edited by: AW

Verified by: AW (STIC staff)

- ENTERED
- ☐ Changed a file from non-ASCII to ASCII
 - ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
 - ☐ Edited a format error in the Current Application Data section, specifically: _____
 - ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
 - ☐ Added the mandatory heading and subheadings for "Current Application Data".
 - ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
 - ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
 - ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
 - ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
 - ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
 - ☐ Inserted colons after headings/subheadings. Headings edited included: _____
 - ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
 - ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
 - ☐ Inserted mandatory headings, specifically: _____
 - ☐ Corrected an obvious error in the response, specifically: _____
 - ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
 - ☐ Corrected an error in the Number of Sequences field, specifically: _____
 - ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
 - ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

***Examiner:** The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999
TIME: 11:48:55

Input Set: I004395B.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Gilmore Jr., Robert D
2 Johnson, Barbara JB
3 <120> TITLE OF INVENTION: RECOMBINANT P37/FlaA AS A DIAGNOSTIC REAGENT
4 <130> FILE REFERENCE: 97,429
5 <140> CURRENT APPLICATION NUMBER: US/09/004,395B
6 <141> CURRENT FILING DATE: 1998-01-08
7 <160> NUMBER OF SEQ ID NOS: 6
8 <170> SOFTWARE: Microsoft Word 97
9 <210> SEQ ID NO 1
10 <211> LENGTH: 1655
11 <212> TYPE: DNA
12 <213> ORGANISM: B.burgdorferi
13 <220> FEATURE:
14 <221> NAME/KEY: CDS
15 <222> LOCATION: 473..1498
16 <220> FEATURE:
17 <221> NAME/KEY: sig_peptide
18 <222> LOCATION: 473..538
19 <220> FEATURE:
20 <221> NAME/KEY: mat_peptide
21 <222> LOCATION: 539..1498
22 <223> OTHER INFORMATION:
23 <400> SEQUENCE: 1
24 atgataatct tttttcaaaa aagggtttttt attttcattc tagcaaggga tttgttgcta 60
25 atttaagata tttaagagat gaacaaaatt tgaaagataa tttagatctt ttagtaaaag 120
26 attttctttt aggaagcaat gaggggtttt cttttgggtt tttattaagt gattcaagat 180
27 ttttatattc ttttttaaag aatggagttt attatgtaa tctttcaaga gaattttatg 240
28 attcttttaa taatggtgat tataatgaat cttttgatgt taagggtcaat ctttttgcta 300
29 tgtctttaat aaaaacaatg cgctttaact atcctggtaa gataaaaaag attattattc 360
30 ttgttgagg gtgtatctta aaggagcaaa gttgataaat taaattttac taataaaaaat 420
31 aattaaaaaa cgaaaatttt ataaaagatt tatatataag gagttgggtt ac atg 475
32 Met
33 -22
34 aaa agg aaa gct aaa agt att tta ttt ttt tta tta tcc act gtt ctt 523
35 Lys Arg Lys Ala Lys Ser Ile Leu Phe Phe Leu Leu Ser Thr Val Leu
36 -20 -15 -10
37 ttt gct caa gag act gat gga tta gca gag ggt tct aaa agg gca gag 571
38 Phe Ala Gln Glu Thr Asp Gly Leu Ala Glu Gly Ser Lys Arg Ala Glu
5 10

41
42
43
44 Ser Thr Arg Leu Asp Leu Thr Asn Tyr Val Asp Tyr Val Tyr Ser Gly

ENTERED

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999
TIME: 11:48:55

Input Set: I004395B.RAW

45	30	35	40	
46	gct tct ggt att gtt aag ccg gaa gat atg gtt gta gat ctt ggg ata	715		
47	Ala Ser Gly Ile Val Lys Pro Glu Asp Met Val Val Asp Leu Gly Ile			
48	45 50 55			
49	aat aat tgg agc gtt tta ctt act cct tct gca agg ttg cag gct tac	763		
50	Asn Asn Trp Ser Val Leu Leu Thr Pro Ser Ala Arg Leu Gln Ala Tyr			
51	60 65 70 75			
52	gtt aaa aat tca gtt gtt gcg ccc gct gtt gtt aag agt gag tca aaa	811		
53	Val Lys Asn Ser Val Val Ala Pro Ala Val Val Lys Ser Glu Ser Lys			
54	80 85 90			
55	agg tac gca ggt gat act att ttg ggg gta aga gtt ttg ttt cca agc	859		
56	Arg Tyr Ala Gly Asp Thr Ile Leu Gly Val Arg Val Leu Phe Pro Ser			
57	95 100 105			
58	tat tct caa tca tct gct atg att atg cca cca ttt aaa att cct ttt	907		
59	Tyr Ser Gln Ser Ser Ala Met Ile Met Pro Pro Phe Lys Ile Pro Phe			
60	110 115 120			
61	tat tca ggg gaa agt ggc aat caa ttt tta ggc aaa ggt ctt att gat	955		
62	Tyr Ser Gly Glu Ser Gly Asn Gln Phe Leu Gly Lys Gly Leu Ile Asp			
63	125 130 135			
64	aac att aaa acc atg aaa gaa att aag gta tct gtt tat agt tta ggg	1003		
65	Asn Ile Lys Thr Met Lys Glu Ile Lys Val Ser Val Tyr Ser Leu Gly			
66	140 145 150 155			
67	tat gag ata gat ctt gag gtt tta ttt gaa gat atg aat ggc atg gaa	1051		
68	Tyr Glu Ile Asp Leu Glu Val Leu Phe Glu Asp Met Asn Gly Met Glu			
69	160 165 170			
70	tat gct tat tct atg ggt act tta aag ttt aaa ggg tgg gct gat tta	1099		
71	Tyr Ala Tyr Ser Met Gly Thr Leu Lys Phe Lys Gly Trp Ala Asp Leu			
72	175 180 185			
73	att tgg tca aat cct aac tat att cct aat ata tca tcc aga att att	1147		
74	Ile Trp Ser Asn Pro Asn Tyr Ile Pro Asn Ile Ser Ser Arg Ile Ile			
75	190 195 200			
76	aaa gac gat gtt cca aat tat cct ctt gct tca agt aaa atg aga ttt	1195		
77	Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg Phe			
78	205 210 215			
79	aag gct ttt aga gtt tca aag tca cac agt tca aaa gtt aaa aat ttc	1243		
80	Lys Ala Phe Arg Val Ser Lys Ser His Ser Ser Lys Val Lys Asn Phe			
81	220 225 230 235			
82	atc ttt tat gtt aaa gat tta aga gtt ctt tat gat aag cta agt gtt	1291		
83	Ile Phe Tyr Val Lys Asp Leu Arg Val Leu Tyr Asp Lys Leu Ser Val			
84	240 245 250			
85	tca ata gat tct gat att gac agt gag tct gta ttt aaa gtt tat gag	1339		
86	Ser Ile Asp Ser Asp Ile Asp Ser Glu Ser Val Phe Lys Val Tyr Glu			
87	255 260 265			
88	act agc gga act gaa tcc ctt cgt aaa tta aag gca cac gaa act ttt	1387		
93	285 290 295			
94	ttc caa aac ttt gta gaa aag att gag agt gaa aaa cct gaa gaa tca	1483		

PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999
TIME: 11:48:55

Input Set: I004395B.RAW

95 Phe Gln Asn Phe Val Glu Lys Ile Glu Ser Glu Lys Pro Glu Glu Ser
 96 300 305 310 315
 97 tct ccg aaa aat tag gtttaaatta atatgtaaag ctacctaaaa ggtttgcttt 1538
 W--> 98 Ser Pro Lys Asn
 W--> 99 320
 100 acatattaaa ataattaggaa atagtatatg gaaatattag atttggaaaa tgaagagctt 1598
 101 ttaggagttt ttttgaaga agtcaaaat cttgtagata tccttgaaga gaatatt 1655
 102 <210> SEQ ID NO 2
 103 <211> LENGTH: 341
 104 <212> TYPE: PRT
 105 <213> ORGANISM: B.burgdorferi
 106 <400> SEQUENCE: 2
 107 Met Lys Arg Lys Ala Lys Ser Ile Leu Phe Phe Leu Leu Ser Thr Val
 108 -22 -20 -15 -10
 109 Leu Phe Ala Gln Glu Thr Asp Gly Leu Ala Glu Gly Ser Lys Arg Ala
 110 -5 1 5 10
 111 Glu Pro Gly Glu Leu Val Leu Asp Phe Ala Glu Leu Ala Arg Asp Pro
 112 15 20 25
 113 Ser Ser Thr Arg Leu Asp Leu Thr Asn Tyr Val Asp Tyr Val Tyr Ser
 114 30 35 40
 115 Gly Ala Ser Gly Ile Val Lys Pro Glu Asp Met Val Val Asp Leu Gly
 116 45 50 55
 117 Ile Asn Asn Trp Ser Val Leu Leu Thr Pro Ser Ala Arg Leu Gln Ala
 118 60 65 70
 119 Tyr Val Lys Asn Ser Val Val Ala Pro Ala Val Val Lys Ser Glu Ser
 120 75 80 85 90
 121 Lys Arg Tyr Ala Gly Asp Thr Ile Leu Gly Val Arg Val Leu Phe Pro
 122 95 100 105
 123 Ser Tyr Ser Gln Ser Ser Ala Met Ile Met Pro Pro Phe Lys Ile Pro
 124 110 115 120
 125 Phe Tyr Ser Gly Glu Ser Gly Asn Gln Phe Leu Gly Lys Gly Leu Ile
 126 125 130 135
 127 Asp Asn Ile Lys Thr Met Lys Glu Ile Lys Val Ser Val Tyr Ser Leu
 128 140 145 150
 129 Gly Tyr Glu Ile Asp Leu Glu Val Leu Phe Glu Asp Met Asn Gly Met
 130 155 160 165 170
 131 Glu Tyr Ala Tyr Ser Met Gly Thr Leu Lys Phe Lys Gly Trp Ala Asp
 132 175 180 185
 133 Leu Ile Trp Ser Asn Pro Asn Tyr Ile Pro Asn Ile Ser Ser Arg Ile
 134 190 195 200
 135 Ile Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg
 136 205 210 215
 137 Phe Lys Ala Phe Arg Val Ser Lys Ser His Ser Ser Lys Val Lys Asn
 138 220 225 230
 143 Glu Thr Ser Gly Thr Glu Ser Leu Arg Lys Leu Lys Ala His Glu Thr
 144 270 275 280

PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999
TIME: 11:48:55

Input Set: I004395B.RAW

```

145      Phe Lys Arg Val Leu Lys Leu Arg Glu Lys Ile Ser Ile Ala Glu Gly
146          285                      290                      295
147      Ser Phe Gln Asn Phe Val Glu Lys Ile Glu Ser Glu Lys Pro Glu Glu
148          300                      305                      310
149      Ser Ser Pro Lys Asn
150          315
151      <210> SEQ ID NO 3
152      <211> LENGTH: 21
153      <212> TYPE: DNA
154      <213> ORGANISM: B.burgdorferi
155      <400> SEQUENCE: 3
156          atgaaaagga aagctaaaag t                                21
157      <210> SEQ ID NO 4
158      <211> LENGTH: 19
159      <212> TYPE: DNA
160      <213> ORGANISM: B.burgdorferi
161      <400> SEQUENCE: 4
162          gatggattag cagaggggtt                                19
163      <210> SEQ ID NO 5
164      <211> LENGTH: 21
165      <212> TYPE: DNA
166      <213> ORGANISM: B.burgdorferi
167      <400> SEQUENCE: 5
168          tgggataaat aattggagcg t                                21
169      <210> SEQ ID NO 6
170      <211> LENGTH: 21
171      <212> TYPE: DNA
172      <213> ORGANISM: B.burgdorferi
173      <400> SEQUENCE: 6
174          ctaatttttc ggagatgatt c                                21

```

PAGE: 5

VERIFICATION SUMMARY
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999
TIME: 11:48:55

Input Set: I004395B.RAW

Line ? Error/Warning

Original Text

98 W Line data has been corrected

Ser Pro Lys Asn *

99 W Invalid/Missing Amino Acid Numbering

320

PAGE: 6

CORRECTION SUMMARY
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999
TIME: 11:48:55

Input Set: I004395B.RAW

Line Original Text

Corrected Data

98 Ser Pro Lys Asn *

Ser Pro Lys Asn

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/004,395BDATE: 06/23/1999
TIME: 11:48:55

Input Set: I004395B.RAW

PREVIOUSLY ERRORED SEQUENCES-EDITED

1 <210> 6
2 <211> 21
3 <212> DNA
4 <213> B.burgdorferi
5 <400> 6
6 ctaatttttc ggagatgatt c

21

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/004,395B

DATE: 06/19/1999

TIME: 16:32:24

Input Set: I004395B.RAW

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

Does Not Comply
Correct Diskette Needed

1 <110> Gilmore Jr., Robert D
2 Johnson, Barbara JB
3 <120> RECOMBINANT P37/FlaA AS A DIAGNOSTIC REAGENT
4 <130> 97,429
5 <140> US/09/004,395B
6 <141> 1998-01-08
7 <160> 6
8 <170> Microsoft Word 97

ERRORED SEQUENCES FOLLOW

9 <210> 6
10 <211> 21
11 <212> DNA
12 <213> B.burgdorferi
13 <400> 6
14 ctaatttttc ggagatgatt c
E--> 15 ①

21

PAGE: 2

VERIFICATION SUMMARY
PATENT APPLICATION US/09/004,395B

DATE: 06/19/1999
TIME: 16:32:24

Input Set: I004395B.RAW

Line ? Error/Warning

Original Text

15 E Number of Bases conflict w/ Running Total 1